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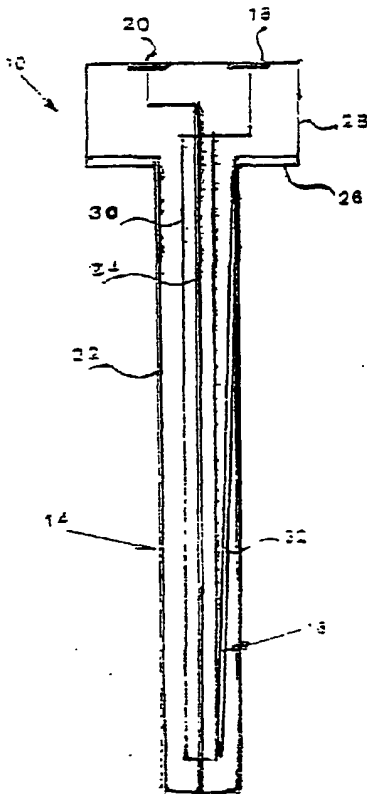
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[Continued on next page]

(54) Title: IMPROVEMENTS IN THERMOSTAT FOR WATER BOILER



(57) Abstract: A thermal control device (10) for electrically powered appliances, in particular a thermostat to protect against overheating of a hot water boiler. The thermostat having a structure (26) supporting a first (20) and second (18) electric switches disposed in series between an electric power supply and an electric heating element, an extended length first bimetal device (14) being arranged for thermal at least indirect contact with water being heated, a second bimetal device (16) disposed inside the first bimetal device and acting to open the second switch if the second bimetal device reaches a second temperature higher than a first temperature due to the failure of the first bimetal device to open the first switch



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## A. CLASSIFICATION OF SUBJECT MATTER

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## B. FIELDS SEARCHED

Minimum documentation searched (classification system followed by classification symbols)

U.S. : 392/498, 497

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Electronic data base consulted during the international search (name of data base and, where practicable, search terms used)

EAST search terms: thermostat, bimetal, brass, invar, fail

## C. DOCUMENTS CONSIDERED TO BE RELEVANT

Category *	Citation of document, with indication, where appropriate, of the relevant passages	Relevant to claim No.
A	US 4,752,671 A (FOSTER et al) 21 June 1988, entire document.	1-4
A	US 4,539,468 A (PHILLIPS et al) 03 September 1985, entire document.	1-4
A	US 5,408,579 A (HUNT) 18 April 1995, entire document.	1-4

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